

PUBLICATIONS AND REPORTS

Meeting Papers Presented

Conference on Gaseous Discharges, New York, October 19-21, 1950.

W. P. Allis: The Energy Distribution of Electrons in Electrodeless Discharges

S. C. Brown: Breakdown in Hydrogen at 100-Mc Frequency

D. J. Rose: Maintaining Electric Fields in a Steady-State Microwave Discharge

Conference on Applications of X-Ray Spectroscopy to Solid State Problems, University of Wisconsin, Madison, October 23-25, 1950

J. C. Slater: Improved Energy Band Calculations for Soft X-Ray Emission

Conference on Neutron Physics, Brookhaven National Laboratory, Long Island City, New York, November 10-11, 1950

J. C. Slater: Radiation Damage to Materials

AIEE-IRE Lecture Series, Statistical Methods for Communication Engineering, New York, November 21, 1950.

Y. W. Lee: Application of Correlation Techniques to the Characterization of Linear Systems and to the Detection of Repetitive Signals in Noise.

Journal Articles Accepted for Publication

A. Bavelas: Communication Patterns in Task-Oriented Groups (J. Acous. Soc. Am.)

F. Bitter, F. E. Reed: A New Type of Electromagnet (Rev. Sci. Instr.)

J. P. Chisholm, E. F. Bulkley, G. W. Farnell: A Multichannel PAM-FM Radio Telemetry System (Proc. I.R.E.)

W. C. Dickinson: The Time Average Magnetic Field at the Nucleus in Nuclear Magnetic Resonance Experiments (Phys. Rev.)

G. W. King: Application of Automatic Computing Methods to Infrared Spectroscopy (International Business Machines Corporation)

L. G. Kraft: Correlation Function Analysis (J. Acous. Soc. Am.)

R. D. Maurer, M. A. Herlin: Pressure Dependence of Second Sound Velocity in Liquid Helium II (Phys. Rev.)

J. C. Slater: Note on Orthogonal Atomic Orbitals (J. Chem. Phys.)

J. C. Slater: A Simplification of the Hartree-Fock Method (Phys. Rev.)

O. H. Straus: The Relation of Phonetics and Linguistics to Communication Theory (J. Acous. Soc. Am.)

L. Tisza: Theory of Critical Points (J. Phys. Chem.)

L. Tisza: Theory of Superconductivity (Phys. Rev.)

Letters to the Editor

- J. R. Eshbach, R. E. Hillger, C. K. Jen: Nuclear Magnetic Moment of S^{33}
(Phys. Rev.)
- G. W. King: Effect of Low Temperatures on Infrared Spectra (Nature)
- H. E. Rorschach, M. A. Herlin: Low-Temperature Resistance Minimum in Magnesium
Measured by a Mutual Inductance Method (Phys. Rev.)
- M. T. Weiss, M. W. P. Strandberg: The Microwave Spectra of the Deutero-Ammonias
(Phys. Rev.)

Technical Reports Published

(The technical reports listed here may be obtained from the Document Office, 20B-221
Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge
39, Massachusetts.)

- No. 121 S. Goldman, W. F. Santelmann, Jr., Conger Williams, M.D.,
Fred Alexander, M.D.: Area Displays of the Electrical Activity of the
Heart
- No. 137 R. E. Scott: An Analog Device for Solving the Approximation Problem of
Network Synthesis
- No. 151 R. A. Rapuano: High-Frequency Ultrasonics II: 280 to 560 Mc/sec
- No. 172 R. J. Harrison: The Quantum Theory of Antiferromagnetism
- No. 173 E. E. David, Jr.: A New Method of Estimating Preoscillation Noise in a
Pulsed Oscillator (Magnetron)
- No. 176 F. Bitter, F. E. Reed: A New "Double Resonance" Method for the
Investigation of Atomic and Nuclear Moments
- No. 177 R. B. Lawrance, M. W. P. Strandberg: Centrifugal Distortion in
Asymmetric Molecules I: $H_2C^{12}O$.